

### Amendments to the Claims

1. (Currently Amended) A method of invoking protocol translation in a multicast network supporting first and second protocols, the method comprising ~~the steps of~~ :
  - detecting a first multicast request sent from a source host to a destination host using a first protocol;
  - sending, after a predetermined time, a second multicast request to said destination host using each of said first and second protocols; [[and]]
  - invoking protocol translation to facilitate communication between said source host and said destination host, if a reply to said second multicast request is received from said destination host using said second protocol and no reply is received from said destination host using said first protocol, wherein the protocol translation comprises: generating a proxy address using the first protocol for the destination host, forwarding the proxy address to the source host, creating an alias on a network interface at a translation mechanism in the multicast network, and assigning the proxy address to the aliased network interface to enable the translation mechanism to detect and process packets addressed to the proxy address;
    - sending a unicast request from the source host intended for the destination host using the proxy address using the first protocol;
    - detecting the unicast request at the aliased network interface by the translation mechanism;
    - processing of the unicast request by the translation mechanism to determine an address for the destination host using the second protocol; and
    - forwarding the unicast request by the translation mechanism to the destination host using the second protocol to establish a connection from the source host to the destination host.
2. (Original) The method according to claim 1, wherein said reply received from said destination host using said second protocol is a unicast reply.

3. (Original) The method according claim 1, wherein said first and second protocols are each selected from the group of protocols consisting of Internet Protocol version 4 (IPv4) and Internet Protocol version 6 (IPv6).
- 4-6. (Cancelled)
7. (Currently Amended) The method according to claim [[6,]] 1 wherein said translation mechanism is selected from the group of translation mechanisms consisting of a translator and a proxy.
8. (Original) The method according to claim 1, wherein said multicast network is a multicast domain name system network.

9. (Currently Amended) A system for invoking protocol translation in a multicast network supporting first and second protocols, said system comprising:

- a network interface for communicating with said network;
- a memory for storing information;
- a processor coupled to said memory and said network interface; and
- a dual-stack host implemented using said memory and said processor;

- for detecting a first multicast request sent from a source host to a destination host using a first protocol,

- for sending, after a predetermined time, a second multicast request to said destination host using each of said first and second protocols, [[and]]

- for invoking protocol translation to facilitate communication between said source host and said destination host, if a reply to said second multicast request is received from said destination host using said second protocol and no reply is received from said destination host using said first protocol, wherein the protocol translation comprises: generating a proxy address using the first protocol for the destination host, forwarding the proxy address to the source host, creating an alias on a network interface at a translation mechanism in the multicast network, and assigning the proxy address to the aliased network interface to enable the translation mechanism to detect and process packets addressed to the proxy address,

- for sending a unicast request from the source host intended for the destination host using the proxy address using the first protocol,

- for detecting the unicast request at the aliased network interface by the translation mechanism,

- for processing of the unicast request by the translation mechanism to determine an address for the destination host using the second protocol, and

- for forwarding the unicast request by the translation mechanism to the destination host using the second protocol to establish a connection from the source host to the destination host.

10. (Original) The system according to claim 9, wherein said first and second protocols are selected from the group consisting of Internet Protocol version 4 (IPv4) and Internet Protocol version 6 (IPv6).
- 11-13. (Cancelled)
14. (Original) The system according to claim 9, wherein said dual-stack host comprises:  
a multicast domain name system application level gateway (mDNS-ALG).
15. (Cancelled)
16. (Original) The system according to claim 9, wherein said multicast network is a multicast domain name system network.
- 17-20. (Cancelled)